



SPRING NEWS LETTER

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MARCH, 1961

## New Officers Elected

Nearly 60 percent of ANSS members returned their ballots for the election of officers which was a larger percentage than usual. Perhaps this is an indication of growing interest in the field of nature study and deepened conviction of the worth of the Society. This percentage is higher than usual for national organizations.

The following officers and board members were elected: S. Glidden Baldwin, president-elect; Dorothea Mulaik, first vice-president; John Brainerd, second vice-president; Beth Schultz, secretary; and the new directors are Phyllis S. Busch, John H. Gustafson, Charles E. Mohr, Edwin Way Teale, and Paul Webster. Mildred Rulison was continued as treasurer, and the continued board members are Richard B. Fischer, Oscar Hawksley, Millicent E. Selsam, Malvina Trussell, and John Wanamaker. Stanley Mulaik was reappointed as editor. Ruth E. Hopson is the president.

This is one of the strongest councils which the Society has had for some time, and it is expected that considerable progress will be made in promoting conservation and nature education along many avenues.

The duties of the various officers if carried out fully will produce a lot of busier-than-ever members. Ruth Hopson will have the problem of general direction of the year's activities including the appointment of any members or committees to help promote ANSS. Glidden Baldwin will be responsible for the Denver meeting next December 26-30. Dorothea Mulaik will be in charge of membership promotion. John Brainerd will further the interests of ANSS through expanding affiliation of other organizations. Beth Schultz will keep the record of the Society and carry on the usual activities associated with the office of secretary. Mildred Rulison will watch over the financial welfare of the Society and receive dues and other moneys and

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Ann Haven Morgan discussing water life with Edwin Way Teale — the subject of one of her field guides and of his next book.

## In Memory

It is with sorrow that we learned of the death of Richard W. Westwood following an illness. He served the American Nature Study Society in numerous offices and was president during 1949-50. He was born in Newtonville, Massachusetts in 1896. After studying journalism at Columbia, he had a wide experience in this field serving on the New London Telegraph, the Providence Journal, and the Christian Science Monitor where he devoted most of his time to conservation.

Since 1923 he served as editor of Nature Magazine and wrote extensively on the conservation theme. He likewise was president of the American Nature Association and was active in the International Union for conservation of nature and in other organizations.

His passing is a distinct loss to the nature study and conservation movement.

## Editors Are Appointed

The need for having as broad a coverage of news as possible is being met by the appointment of an editorial committee. Richard B. Fischer was continued to obtain the material for Nature Study Tips for the current year. Evelyn Gayman is to provide news of the doings of the Western Section and of its members. The Western Section is the only section which is active, holding an annual meeting in connection with the summer meeting of the Pacific Division of the AAAS.

Since new nature and conservation literature is being placed on the market in large numbers, it was felt necessary to have a critical review of some of the best of it. Millicent D. Selsam who is certainly well qualified will review current nature literature.

Malvina Trussell will provide information on nature activities and possibilities for the south eastern part of the country. It is hoped that this area, and perhaps other areas will develop sections similar to that found in the west.

## AMERICAN NATURE STUDY SOCIETY NEWS LETTER

Affiliated with  
 The National Association of Biology Teachers  
 The National Science Teachers Association  
 The American Association for the Advancement of Science

Publication Dates: Spring, March; Summer, June; Fall, September; Winter, November

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### NEW OFFICERS ELECTED

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pay out authorized expenditures.

Board members will serve on committees, will promote ANSS interests, serve in an advisory capacity to the Executive Committee, and serve on the Council at annual meetings.

Dr. E. Laurence Palmer who has been a great force in the nature study and conservation education movement was again elected to serve as a representative to the AAAS Council.

The nominating committee has been busy evaluating possible nominees for the offices to be filled for 1962. John Wanamaker who is the chairman of the committee would welcome names of individuals to be considered for nomination. The members of the board are especially urged to cooperate in this activity.

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A services committee for the ANSS has long been a need to carry on activities of providing helps from the Society to those seeking information about nature study and conservation education programs. A committee composed of Vern Rockcastle, chairman, Beth Blair and John Gustafson was appointed to serve in this capacity.

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While a lock-step regimentation of an activity is certainly undesirable, yet it has been felt for some time that there was a great need to provide information of what the minimum qualifications of a nature counsellor should be. A committee appointed to investigate this problem was composed of John Brainerd, John Wanamaker and Howard Weaver.

From their study they hope to develop with the help of the American Camping Association a plan for certifying nature counsellors. This ANSS committee will work closely with the American Camping Association.

## Plans For Annual Meeting Develop

The upsurge of interest in developing a broader understanding of our natural resources implies the need for an educational program which is far more extensive than national boundaries. To meet the world wide interest, the theme for the 1961 meeting of the ANSS will be "Nature Study Around the World." Glidden Baldwin, president-elect, who recently returned with his family from a six month's world tour, will be responsible for developing the program for the coming meeting. He is well qualified for this activity not only because of his recent world experience, but from earlier experiences such as his extensive trip experiences through Africa and other areas.

The next annual meeting is scheduled for Denver, Colorado, December 26 to 30. Mrs. Helen Mae Cracken from Estes Park has been selected to head up the local committee on arrangements. Other members who will likely contribute their time, energy, and ideas to make this meeting a great success are Paul W. Nesbit of Colorado Springs, Wilbert F. Snyder, and Dr. Oakleigh Thorne of Boulder, Colorado.

## Western Meeting Planned

The Western Section of ANSS is meeting on the Davis Campus of the University of California, June 20 to 22. Catherine Dunlop, vice-president has completed arrangements of an excellent program. There will be an early morning bird trip and breakfast and an early afternoon Business Meeting and Program the first day; a field trip the next day, followed by the annual dinner and Kodachrome showing in the evening. On the third day, Thursday, there will be a field trip in cooperation with the Ecological Society of America. Dr. Elmo Stevenson is President and Frances S. Newsom is secretary. Ruth Hopson is representative on the Council, AAAS, Pacific Division.

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The Pacific Coast biennial Convention of the National Audubon Society meets at Asilomar, California March 25 to 28. This convention draws a large attendance not only of western members, but from the east as well. Roger Tory Peterson is scheduled to attend, and he will have a premier showing of a film "Wild America — Alaskan Journey."

Field trips by land and sea will be offered and greatly enjoyed especially with nationally known leaders too numerous to mention.

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The Conservation Education Association is holding its next annual meeting at the University of Montana in Missoula, August 14 to 17. C. W. Mattison, president, indicates that an excellent program has been prepared.

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Soil Stewardship Week will be observed May 7 to 14 throughout the United States. This offers ANSS members an opportunity to promote a deeper understanding and appreciation of the nature and value of soil to human welfare.

## Family Camping Promoted

The question has often been raised regarding the need for providing a nature camping experience for families. Should the ANSS enter into this type of activity? The board considered this possibility especially in the light of a possible summer ANSS conference in the near future. Its feasibility stems from the fact that many families take summer trips and these might well be coupled with an ANSS conference held at suitable areas such as the Great Smokies National Park, the Adirondacks, Estes National Park or the high Sierra country. Several regional summer conferences are possible.

It is certain that interest in such conferences programmed for families would be desirable. However, John Wanamaker, The Principia College, Elsah, Illinois who was appointed to explore this feature would like to hear from the membership regarding possible participation in such a program.

In this connection it is interesting to announce that the Utah Nature Study Society is holding such a conference during a four day period over the Labor Day week end. This conference will be held in the Uinta Mountains at the YMCA camp. A program of nature activities to meet all age levels in the family groups has been planned.

## Briefs

Past president of ANSS Roger Tory Peterson who is currently a board member and secretary of the National Audubon Society was awarded the Gold Medal of the New York Zoological Society in January. Inscribed on the medal were the words "Inspired Interpreter of Birds for the Benefit of Man."

ANSS missed Roger during the meetings in New York last December because he was then in the Southern part of South America. He obtained over 9000 feet of film while on this trip which lasted three months.

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It is with pride that the board during the meeting in New York City voted to grant C. M. Goethe and Eva Gordon Honorary Life Memberships in the ANSS. These people have given great services to the cause of nature study. A suitable certificate will be presented to these individuals from the office of the secretary.

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One of the most pressing needs in the study of the bald eagle launched by the National Audubon Society is to locate their nests. Those who might have information on this bird in any area are requested to contact Alexander Sprunt IV, the Society's research director at Tavernier, Florida.

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A problem which every organization faces in the light of changing conditions is that of bringing the constitution in line with what would seem the best course to follow. While minor changes in the ANSS constitution have been made in the last few decades, it was felt that a thorough revision was needed. Some of the ground work has been done, but to finish the work, a committee composed of Malvina Trussell, chairman, Emery Will, and John Brainerd was appointed.

Board members and present and past officers acquainted with society problems are especially urged to write promptly concerning any matters which it would be well for this committee to consider.

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John Ripley Forbes who served for a number of years as the Director of Operations for Nature Centers for Young America, Inc., has become president of the Natural Science for Youth Foundation. Byron Ashbaugh, one of our good members who was formerly Field Supervisor, has been appointed as Director of Operations for the Nature Center.

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A new development which has potential for doing great things for nature and conservation in America is the merger of Nature Centers for Young America with

## Good Reading

A new series of nature books that may have special interest to members of the American Nature Study Society has just been released by the Sterling Publishing Company. The titles are *A BIRD IS BORN*, *A FRUIT IS BORN*, *A TREE IS BORN*, and *A BUTTERFLY IS BORN*. All of these are distinguished by magnificent close-up photographs of the subjects treated. The pictures alone make the books worthwhile — for any age.

If you want to look at the intimate details in the life history of some moths and butterflies, see *A BUTTERFLY IS BORN* by J. P. Vanden Eckhoudt. You can follow the story from the time the eggs are laid, through the travels of the caterpillar, the spinning of the cocoon or formation of the chrysalis to the final emergence of butterfly or moth.

*A BIRD IS BORN* by E. Bosiger and J. M. Guilcher has 111 X-ray and close-up photographs by E. Hosking and R. H. Noailles showing step by step the development of a bird inside the egg until the chick picks its way out of the shell.

*A FRUIT IS BORN* by J. M. Guilcher and R. H. Noailles shows the transformation from flower to fruit as a close-up camera sees it. Many of the photographs are magnified and show beautiful details rarely seen in the ripening of drupes, berries, follicles, pods, capsules and achenes.

*A TREE IS BORN* by J. M. Guilcher and R. H. Noailles tells the photographic story of the growth of trees. We see the opening of leaf and flower buds, the development of fruit and seed, and the germination of the seeds. Four trees are treated in detail: horse chestnut, oak, walnut and pine.

Unfortunately several of these books did not reach reviewer's desks in time for two big surveys of children's science books of 1960.

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The December issue of *NATURAL HISTORY* carried a special Christmas survey of the year in children's science books. The reviews in that issue contained some outspoken criticism of some of the books being published today. It is interesting to compare these reviews with those in the December issue of *SCIENTIFIC AMERICAN*. Although the opin-

ions on some of the books are conflicting, it is refreshing to read reviews by people with good scientific backgrounds. All who are interested can get a bird's eye view of last year's juvenile science books by looking at these two magazines.

**Help Conserve Forests And Wildlife**



Bonnie Frye, 12 years, Lewiston, N. Y. Lew-Port School. Winner of 1st Award, Grades 5 and 6 in Wildlife Poster Contest, 1960.

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— Millicent E. Selsam

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Ducks, Geese and Swans by Herbert H. Wong, Lane Publishing Co., 1960. \$2.95. In this new book of 65 pages, one is introduced to the feeding habits, molting patterns, habitats and migrations of indigenous water birds. The drawings by William D. Berry are excellent.

## Arbor Day To Be Observed

Arbor Day has been designated by legislation in many states, and usually comes in late April. Nationally, Arbor Day is scheduled for the last Friday in April. This day offers opportunity for ANSS members to render a fine service at the local level.

A program could be carried out similar to that which some ANSS members, working through the 400 member Utah Nature Study Society, have carried out. They obtained the support of the governor who designated the week prior to Arbor Day as Utah Tree Week. A small pamphlet was prepared suggesting activities for each day of the week in class rooms, culminating in a school wide program on Friday.

Your Newsletter editor would like to hear of successful programs for Arbor Day being carried out elsewhere.

## Pesticides Hard on Wildlife

The growing intensity of the storm against the present pattern of use of pesticides purportedly against insects may see some results. The almost complete eradication of bird, insect, rodent and other animal life in some areas is scarcely a fitting monument to those who have dispersed lethal doses of many of the hundreds of new poisons developed in the last decade. There is growing evidence that where such birds as quail, robins, pheasants and other wildlife receive sublethal doses of such chemicals as diel-dren and heptachlor, varying degrees of sterility result.

The U. S. Fish and Wildlife Service has found that not only game and song birds are destroyed when such agricultural granular heptachlor is used in some areas to the extent of two pounds per acre, but fish in adjoining streams, ponds and lakes suffer a high and in some cases a hundred percent mortality.

If some disease produced as high a rate of mortality among our wildlife as has resulted from some of the pesticide usage, the public would call for drastic action. Little has been done. There has been lost a will to fight those who apply poisons to the land without having learned what the consequences of the present manner of application might be.

The Wolf Bill to regulate the use of insecticides which was submitted to the last Congress was not passed because the opposition from pesticide manufacturers and those agencies and individuals interested in their use opposed it with great power.

## Water Credo Adopted

The President's Water Pollution Control Advisory Board met last January and recommended a strengthened water pollution control program. Besides recommending increased aid to the presently inadequate state and local programs, the Board concurred in the adoption of a credo: (1) users of water do not have an inherent right to pollute; (2) users of public water have a responsibility for returning them as nearly clean as is technically possible; and (3) prevention is just as important as control of pollution. The Board also accepted the recommendation that recreational values of water should be recognized as a full partner with domestic, industrial and agricultural values in water quality management policies and programs.

## Editor's Letter Brings Many Gratifying Replies

Last October several hundred letters went to members of ANSS who had been with the Society over five years. An appeal was made to acquaint the editor with the activities in nature study and related fields which these members were carrying on. The response was generous beyond expectation and produced a problem of answering each of these and of abstracting from their letters the most significant features of activities each was carrying on at the local level.

It is gratifying to note that each respondent was doing far more than there was room for publishing even in an expanded Newsletter. Others are doing significant work for the nature study movement, but it is not possible at this time to give space to these in this issue.

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HANOR A. WEBB has been a friend of the ANSS for many years. Before his retirement in 1953 he was Professor of Science Education at George Peabody

### DOOR PRIZES

While the food and the fellowship at the ANSS banquet in New York was excellent, and the banquet speaker and his pictures superb, one feature which has proved of great interest is the drawing for door prizes. There was a prize for everyone because of the generosity of donors who responded to the appeals for such prizes. John Ripley Forbes had obtained over sixty of these with the Mulaiks bringing about fifteen.

The Society would like to thank the donors individually for their contributions. However, it is not possible to do so because of limited space here. Their generosity and good will is appreciated.



Dr. George Avery demonstrating to ANSS members visiting the Brooklyn Botanical Gardens the pruning of a 150 year old BON SAI pine.

College for Teachers. Retirement was only a change to a busy, productive and creative occupation centered largely in writing. He has written many magazine articles. A recent effort resulted in a Unit in Visual Education on *Atomic Energy* including a set of 25 slides and a Teachers' Manual. He has prepared special issues for Current Science of the American Education Press.

He tells that his correspondence seems as heavy as it was before his retirement. Answering these, keeping up to date on current events in world affairs and scientific progress, caring for his garden and his writing keep him thoroughly occupied.

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OSCAR HAWKSLAY, director of ANSS is a biology teacher at Missouri Central State College, where the greater share of a program for developing better science teachers has fallen to him. The development of a broadened graduate program in biology has fallen to him, and this involves emphasis on field work greatly enhanced by the acquisition of an outdoor laboratory near the campus.

In the last five years Oscar has done research in speleology, literally taking him under the earth. With the help of several friends he founded the Missouri Speleological Survey which now involves about a hundred field workers from various speleological organizations in the state.

A side light interest is river-running. He helped organize the American White Water Affiliation which works for the preservation of wilderness rivers and related conservation projects. This takes him into numerous western rivers during summers which includes working with the Hatch River Expeditions acting as boatman-guide-naturalist on many trips through Dinosaur National Monument, now a Park. (We would recommend this trip to anyone.)

### TRUSSELL PREPARES TIPS

The Nature Study Tips contained in this issue of the NEWSLETTER was prepared by Malvina Trussell of Tallahassee, Florida, where she teaches at the Florida State University. Malvina served as a board member, editor and president of ANSS, and her extensive contact with teachers throughout the state have made her aware of their desires and needs. She has numerous cadet teachers scattered over the state, and visiting them keeps her busy.

# Nature Study TIPS

A Service of the American Nature Study Society

NEWS LETTER INSERT

MARCH, 1961

## Making Equipment for Insect Study

by MALVINA TRUSSELL

Teachers, scout leaders and others who work with groups in nature study are often faced with the need for carrying out a program of insect study. An insect net and a cage for observing insects are often in demand. This TIPS gives information on these which will prove useful. The following outline is presented for preparing the insect net.

### INSECT NET

#### I. Materials needed:

1. One wire coathanger
2. One half yard of cheap curtain material
3. Five inches of heavy cloth for facing on net
4. One mop or broom handle. (A dowel can be used)
5. Ten small staples — 2-pronged, "square" topped tacks

#### II. Tools needed:

1. Saw
2. Hammer
3. Pliers
4. Ice pick or small nail

#### III. Directions:

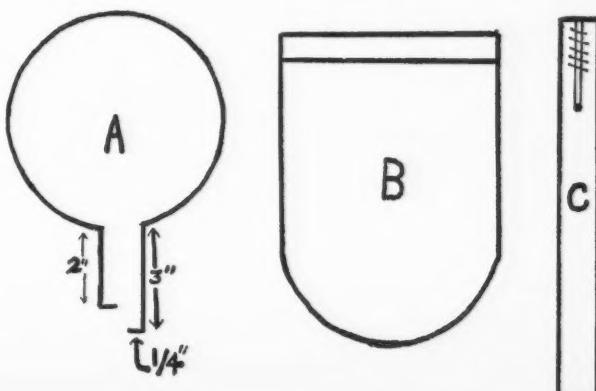
1. Cut coathanger on each side below twisted portion of hook.
2. Bend as shown in illustration A.
3. Making net:
  - a. Measure distance around circular portion of net.
  - b. Cut a bend five inches wide, and length of above circle, from heavy material — allow an inch for seam.
  - c. Cut curtain material to fit above band with a depth of 18 inches for air net or 8 inches for water net.
  - d. Round off bottom of net as shown in illustration B.
  - e. Sew one side of band to curtain material, fold over and sew other side securely through curtain material and band.
  - f. Sew up bottom and side of net.

#### 4. Preparation of handle:

- a. Saw handle from an old mop or broom.
- b. With end of saw, make grooves at one end on each side of handle — depth equal to thickness of the wire and length as indicated in illustration A for the portion of wire which extends down handle.
- c. With ice pick, or small nail, make a hole at the end of each groove — depth equal to bent end of each wire.

#### 5. Assembling parts:

- a. Place wire in groove on one side of handle. See that bent portion is in hole made in handle, and that wire extending up the handle fits flush with top of groove. If necessary, hammer wire in hole and groove.
- b. Place staples across wire and drive in handle until wire is secure — note illustration C.
- c. Run free end of wire through binding on net.
- d. Secure remaining end of wire as in 5a & b.



## CONSTRUCT AN INSECT CAGE

There are many occasions when a suitable insect cage for displaying live insects is an essential apparatus for a classroom. An examination of nature study literature featuring will usually reveal various plans for constructing insect cages. For those who might not have access to such plans the following is offered.

### I. Materials needed:

1. Two 9" pie tins with vertical sides
2. Piece of hardware cloth 30" x 18", size of mesh determined by size of insects you wish to keep for study
3. One yard of hay wire
4. Two wire coathangers

### II. Tools needed:

1. Pliers
2. Ice pick
3. Tin shears
4. Metal file

### III. Construction:

1. Bend hardware cloth into a cylinder which fits snugly inside pie tin. A 1½" overlap is sufficient, cut off excess with tin shears.
2. Fasten overlap by lacing with hay wire.
3. With ice pick make two holes in each pan, one hole opposite the other at about half the distance from top to bottom of side.
4. Cut two 12" pieces of wire from the bottom of coathangers.
5. With a metal file sharpen one end of each wire; at 1½" from the other end bend at right angle to the wire.
6. Place the cylinder of hardware cloth inside one of the pans. Place one of the wires through the holes in the pan and the mesh of the hardware cloth.
7. At 1½" from center of the second pie tin, make a hole with ice pick and at the same distance on the opposite side of the center make another hole.
8. Cut a piece of wire 8" long from the side of one of the coathangers. Bend into a U shape with top of U being 3" across. Place ends of wire through holes from outside of pan. On the inside, bend one half inch of wire at each end. This makes a handle for carrying cage.
9. With remaining "pin" fasten pan to top of cage as in 6 above.

### IV. Suggestions:

1. The cage may be made larger by using larger pans and a longer piece of hardware cloth.
2. A "tin" pan should be painted to prevent rust; aluminum is preferable since it does not rust.
3. The bottom pan can be planted with ferns and mosses to assure sufficient moisture for insects and other animals.
4. A dead piece of wood placed upright in the cage will make it more attractive and afford a natural area for insects, toads and lizards. If tree frogs are kept in the cage, a piece of sponge should be fastened to the piece of wood or to the mesh of the cage and kept moist at all times. A "squeeze" bottle is good for watering.
5. Branches for feeding caterpillars can be placed in the moist soil and removed as soon as the leaves die or are eaten.
6. The soil affords a natural habitat for insects that pupate underground; it can also be used by hibernating frogs, salamanders and snakes.
7. The dead wood makes an ideal home for many beetles and other small invertebrates.

## HELPFUL BOOKS

1. Comstock, Anna B., *Handbook of Nature Study*
2. Earle, Olive, *Crickets*
3. *Insects*, 1952 Yearbook of Agriculture
4. Jaques, H. E., *How to Know the Insects*
5. Lutz, Frank E., *Fieldbook of Insects of the United States and Canada*
6. Lutz, Frank E., *A Lot of Insects*
7. McClung, Robert, *Green Darner*
8. McClung, Robert, *Luna*
9. McClung, Robert, *Tiger*
10. Palmer, E. Laurence, *Fieldbook of Natural History*
11. Teale, Edwin Way, *Boy's Book of Insects* revised as *Junior Book of Insects*
12. Teale, Edwin Way, *The Golden Throng* republished by Indiana University Press as *A Book About Bees*
13. Teale, Edwin Way, *Grassroot Jungles*, revised as *Exploring the Insect World*
14. Teale, Edwin Way, *Insect Friends*
15. Teale, Edwin Way, *The Insect World of J. Henri Fabre*
16. Teale, Edwin Way, *Near Horizons*
17. Zim, Herbert and Cottam, Clarence, *Insects — A Golden Nature Guide*

If space permitted we could write at length about the numerous conservation and nature activities of WALTER E. SCOTT who is currently employed by the Wisconsin Conservation Department. While this work is productive for the department, his efforts following outside interests have led to publication of numerous articles on wildlife and conservation in popular magazines and scientific journals, and one of these is "A History of Conservation in Wisconsin." He has compiled "Reports to the People" on Wisconsin's total conservation effort, conservation education and watershed problems.

A side light effort includes the collection and development of a library of Wildlife and Conservation History for Wisconsin and the collection of records of Wisconsin's big trees. Members will recall a News Letter of several years back which called attention to his "Silent-Wings—A Memorial to the Passenger Pigeon."

His listing in Who's Who in American Education shows a membership in a wide range of organizations to which he gives his support. The ANSS is happy to have him among its members.

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JOHN F. WANAMAKER (Director of ANSS) teaches at The Principia in Elsah, Illinois, where courses in elementary biology, conservation, forestry and ornithology round out his year's program. He finds it quite natural to stress conservation in every course. Over a year ago he spent considerable time in Africa and currently his film on the wildlife of that area is the center of an active lecture program. Preparations are under way to make a trip to Iran to learn about the conservation problems in that ancient country.

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For a number of years JANET NICKELSBURG had a television program in which children doing active work in nature study and conservation were featured. This she recently gave up and after a concentrated effort on a manuscript, she published "The Nature Program at Camp." This book aims to help counselors set up nature programs that will be meaningful to children at camp.

She is currently working on some juvenile non-fiction dealing with the California natural area. Her relation to the National Campfire Girls Program gives her the major direction of the program in her area. The emphasis is primarily on conservation.

A trip last year to Europe included a visit to the New Forest near Southampton under the aegis of the Nature Conservancy of Britain, a government agency concerned with the preservation and re-

storation of the English countryside.

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C. RUSSELL MASON, while formerly a college teacher, has found a fertile niche in 1957 as the executive officer of the Florida Audubon Society after having served in a similar capacity with the Massachusetts Audubon Society for 18 years. He is chairman of the Florida Conservation Council and a member of the Governor's Committee on Resource-use Education.

While with the Massachusetts Audubon Society, his deep understanding of conservation problems and life long interest in birds provided an impetus to developing a sound conservation education program. The growth of the Society in these years from 2700 members to 7800, its course in Conservation and Natural Science reaching 16,000 school children in the Bay State and its network of Wildlife Sanctuaries brought national and international recognition.

His current work with the Florida Audubon Society has likewise been productive. Administering over thirty Sanctuaries, working to expand the program of wildlife protection, conservation education and sanctuary development, and the promotion of membership which now numbers over 2,500 is a massive contribution which few others are capable of making.

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From Brewer, Maine, a short note came from MRS. PAUL E. HANNEMANN, a member who has been with the Society for many years. Her interests center largely on color photography of flowers and birds. The pictures are shared in a busy program of talks to clubs and schools with stress on the need to appreciate and conserve the natural beauty of Maine. She is also an active member of the Bird Conservation Club of Bangor.

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Among the very busy yet productive members is FRANCES S. NEWSOM, the secretary of the Western Section of the American Nature Study Society. She has faithfully maintained her Society membership ever since Ruth E. Hopson signed her up some years ago. She finds a real challenge in "the survey of potential areas, acquisition of land and development of parks and recreation sites," as a member of the Lane County Parks and Recreation Commission in Oregon.

She is a vice-president of the Natural History Society of Eugene, Oregon, and is a past president of the Society which in recent years grew from 50 to 260 members. Her capacity as secretary of the Friends of the Three Sisters Wilderness, Inc., which is organized to promote the scientific study of the area, to assist in education of the public in the value of

wilderness as a national resource and other activities.

To recount her other activities would require more space than is available at this time. (Some people who do a tenth as much think they are busy!)

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Our good friend, JOHN BREUKELMAN edits the *Kansas School Naturalist*, now in its 7th year, serves as chairman of the Kansas Academy of Science Committee on Science Teaching, conducts a high school teacher visitation program and directs a Science Teacher Improvement Program. John was formerly head of the Science Department at Emporia State College which he relinquished to Ted Andrews, a past director of ANSS.

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MABEL H. JAMES of Holland, N.Y., is one of those rare persons who finds great joy and reaps much success in activities related to nature study and conservation. Her most time consuming activity is serving as chairman of the Conservation Forum, New York State. This activity entails much correspondence especially since over sixty organizations are on the active list, and there are over 200 active members. The winner of one of the Conservation poster contests which she helps to make a vital activity is reproduced in this issue of the NEWSLETTER. She is also Research Associate in the Buffalo Museum, an activity which calls for more letter writing, and helping clubs with their conservation programs and exhibits. In the fall and spring she is the field naturalist to conduct the Saturday nature study hikes for the Museum. ANSS is proud to have such a busy member.

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SISTER M. FLORENTINE, Q.S.F., is busy with the usual courses in the biological field. In her Special Methods class for teachers of biology she incorporates nature study and conservation. She works hard with urban students to instill in them an appreciation of nature such as she developed during her childhood on a farm.

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JESSIE L. SOARS became a serious nature student largely since her college days when she was forced to learn about the out-of-doors in greater detail to meet the challenges she faced as a scout leader. The rewards were great enough to induce her to attend Audubon Camps in summers. She finds her nature interests help her meet many interesting people while vacationing. Since becoming better acquainted with nature, her gardening hobby has taken on deeper meaning and her understanding of conservation problems were broadened.

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M. BLANCHE COCHRAN is a biology teacher whose hobby interests are in field nature study and photography, and whose aim in biology is to develop an appreciation of the Great-Out-Doors believing this to be a firm foundation to appreciate the problems of conservation. To do this she believes that one needs to know the life forms and phenomena involved. Her summers are often spent visiting National Parks. (Utah invites her to the new Dinosaur National Park.)

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While GERTRUDE ALLEN might call herself a run-of-the-mill member of ANSS, she is one to be proud of for the wonderful work she is doing to promote nature study. She holds membership in numerous organizations devoted to nature and conservation, and her life-long interest in nature study has been turned to a livelihood activity. She gives numerous Colored Chalk Talks on Nature Study using sketches and notes made over the years. Her art skills come from her art studies at the Museum Art School in Boston from which she earned a diploma.

Her "Everyday Birds" published several years ago has filled a need for satisfying young bird enthusiasts. A manuscript has recently gone to Houghton-Mifflin on "Everyday Animals," and this should be available in March.

\* \* \*

We greatly admire MILDRED S. OLSON who overcame handicaps to lead many young people into an interest in birds and other features of Nature. She is a former student of Ruth E. Hopson's who had her join ANSS about fifteen years ago.

She teaches a fifth grade in Portland and her classroom is a nature museum. She tells that her students usually bring her salamanders, frogs and other living things instead of apples. The extensive collection of living native plants of the northwest which she has in her garden is supplemented by an extensive collection of colored slides.

\* \* \*

LEIGHTON B. GOUGH is a "Helping Teacher" with the Department of Education of the State of Vermont. He has had broad interests in Nature Study and recently was instrumental in the development of a Science Guide for grades one through six in which a large section is devoted to the study of Living Things.

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Science Center in St. Petersburg, Florida, is directed by WILLIAM GUILD whose dedication to young people resulted in a dream come true. He holds out the allure to youngsters that "Science is fun — See it — Touch it — Do it yourself." This has turned many youngsters into the field of science.

His Science Center contains a large collection of scientific apparatus and biological material which is of interest to young people. Recently the St. Petersburg Jaycees took on the responsibility of raising funds to help continue the Science Center.

\* \* \*

The Nature Conservancy gained a staunch friend when CATHERINE DUNLOP, president-elect of the Western Section of ANSS helped in organizing a chapter of NC in Oregon of which she is the chairman. She has been active with the Obsidian Sisters, a hiking club. Her membership in the Oregon Mycological Society and the Oregon Marine Biological Society have added to her activities.

\* \* \*

EDWIN A. MASON has such a large number of accomplishments in the field of nature education that only a few of the highlights will be mentioned. He is the Director of the Arcadia Wildlife Sanctuary of the Massachusetts Audubon Society. He operates Nature Nate's Corner which is a permanent bird photography blind maintained on the sanctuary for those who wish to try their hand at bird photography.

He has worked hard to develop the Senator Aiken Wildflower Garden which is a natural area having all degrees of wetness from a pond through a swamp to dry land and with all degrees of shade. His Girl Scout Tree Merit Badge Trail of twenty marked trees has been a very successful project. While there are few "new" avenues of approach to nature study, one which had some novelty was to have a crabapple transplanting session which permitted children to take their baby tree home.

Ed Mason has prepared an exhibit of postage stamps in the field of nature and conservation which has led some youngsters into a new hobby interest.

\* \* \*

While RALPH W. DEXTER is interested in some aquatic crustacea, he has a keen interest in the whole field of nature study. His interests in interpreting the field of life have led him into activity with the Ecological Society of America. Currently he is serving as a member of the Ecological Advisory Board of the Louis Bromfield Malabar Farm Foundation. Another ANSS member of this board is Kenneth Hunt of Antioch College.

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Ranking among those at the top who have done much for the nature study-conservation movement is WILLIAM G. (CAP'N BILL) VINAL of Norwell, Massachusetts.

To recount all that he has done in a busy life would take many volumes. He writes to his former students as "an old

peddler," saying that "for decades I have been trying to sell open spaces that have clouds, trees, flowers, hills and valleys, and maybe a brook or lake. Sometimes the city spreads so that these things cannot be bought. They were always cheap but now they are priceless."

He looks back at 1960 and finds that for the first time in years he had not contributed one article to a nature journal. However his column mileage in local weeklies is really a "battle with the pen." Such serials as South Shore Planners, Acquiring Open Spaces, Going Primitive, Old Scituate Heritage have been pen battles to save something of what still remains of wild areas. A new series he has planned for the Norwell News for 1961 is entitled "A Resource-Centered Education Program."

The Editor of Norwell News perhaps sums up the impact of this man best when he writes, "Cap'n Bill Rides Again: We on the South Shore have a burr under our saddle . . . known to many who love him as 'Cap'n Bill.' A militant fighter for the preservation of our natural beauty and resources, he has refused to let us fall into complacency before the oncoming bulldozers . . . He again takes us by the scruff of the neck and shakes us good and proper . . . heed well his sayings."

His many talks (he says he never gives lectures), judging science fairs, leading field trips, establishing Black Pond Nature Reservation, keeping up with and continuing to inspire his many students, writing for historical society journals, visiting camps, a trip to Bermuda are only a few additional highlights in activities of a man who has "retired" but not quit. Retirement has given him more time to fight for what he believes regarding our resources.

\* \* \*

When CARL E. SMITH retired several years ago to Broken Bow, Nebraska, he chose to retain an active membership in ANSS from the many organizations to which he belonged. The Society can be proud that he has held such deep interest in its welfare.

Carl Smith recently retired from the Forest Service where he served as an expert on the propagation and culture of forest trees. He had served several years as a nature guide on the Nebraska National Forest and conducted tours for Boy and Girl Scouts, 4-H Clubs and high school and college groups. Previous to this he conducted a Bird Banding Station for the Fish and Wildlife Service. He finds considerable interest in the plants and other life around his home.

\* \* \*

PHYLLIS S. BUSCH developed quite a reputation with her skill in using the

biological offerings of urban areas in enriching high school biology programs. She is currently teaching biology at the Montclair State Teachers College in Upper Montclair, New Jersey. In keeping with her interest in the local environment, she is preparing a course of study in ecology for her school.

The National Association of Biology Teachers has elected her vice president. She has served as Regional Chairman for New York City.

\* \* \*

The Palisades Nature Association which manages the Greenbrook Sanctuary in the Palisades along the Hudson has had DANIEL A. ROSER as its naturalist for over ten years. Mr. Roser, who lives in Bergenfield, New Jersey, plays an active role in many facets of the nature study-conservation movement. He is President of the Hackensack Audubon Society and is an active member of the National Audubon Society, the Massachusetts Audubon Society, the National Parks Association, and many other conservation organizations.

His conservation and nature study activities reach many at the grass roots level, and thus he spreads a wide influence for a better use of our natural resources.

\* \* \*

The name of LULU A. MILLER has been on the roster of ANSS for many years, and her interests in nature have been expressed in many ways. While at present a biology teacher in the Washington, D. C. school she has taught in high schools and colleges in Virginia.

It is interesting to note that Miss Miller is a graduate of the Yosemite Field School of Natural History which Cap'n Bill Vinal had a hand in during its early years. She has attended the Audubon Camp in Maine and the Audubon Nature Center in Connecticut and has served as a nature counsellor in camps. She has played an active part in the Botanical Society and in the Audubon Naturalists Society of Washington, D. C.

\* \* \*

From Racine, Wisconsin, we learn that EDWIN F. SANDERS is in a whirl of activities which leaves no time to wonder what he will do in his retirement since 1947. He hasn't had time to turn out the light yet.

Biology is his first love and he still does considerable substituting in local high schools in biology, physics, chemistry and math. Immediately after "retiring" he taught for five years in the local vocational school. He has organized an outdoor education program for fifth graders in the parochial and public schools of Racine. He prepared sets of kodachrome slides of local wildflowers

and this together with a script are available to teachers. This is coupled with a planned bus trip to local parks where the flowers are growing.

Because of his conservation promotion activities in the community, his former students, scouts, and friends persuaded the County Board to rename Forest Park, Sanders Park in his honor. He is currently working on the Sanders Park Wildflower Guide which will have a map spotting 70 species found in the park area.

His conducted field trips for youngsters convince him that a deep nature interest replaces many of the unguided activities which make troublesome young people. A boy with a pair of field glasses or an insect net has no time to get into trouble.

\* \* \*

MARIAN KELLAD uses every avenue of approach such as literature and visual aids which she learns of through her membership in numerous nature societies. She works to acquaint her pupils with the natural environment emphasizing conservation, preservation and ecology.

\* \* \*

For the present format of the Newsletter which passed from a mimeographed to the present printed form we owe thanks to DWIGHT E. SOLLBERGER who served as editor a number of years ago. He is presently the head of the Science Department of Indiana State College in Pennsylvania. His dynamic leadership in promoting conservation training particularly for all biology students has been quite effective. He has had a strong influence in his state and has served on committees which were involved in setting the direction science education should take.

He is far from being a swivel-chair biologist judging from the many hours he finds for field work on his own and with his students and family. On a leave of absence last spring he visited the desert southwest where his skills as a photographer netted him a fine kodachrome record of desert life. He has been busy photographing buds of trees and shrubs for a publication on which he has worked for sometime.

His interest in the flying squirrel which he studied for his doctorate has never lagged. Currently he watches a large colony of these animals which he established close to home and has learned much about their habits. About fifty of these animals he has raised in captivity and much information on their dietary and life history has been revealed.

\* \* \*

We have the best wishes for ANSS from MRS. KATHERINE S. LEAVITT of Center Point, Oregon. She recently retired from an active role as a school teach-

er and now devotes her time largely to home duties with her husband.

\* \* \*

The ANSS can be duly proud of members like MISS FRANCES J. GILLOTTI who during the last several decades has piled up an enviable record of promoting nature study in many phases. Her latest effort culminated in the development of "Hidden Valley," a new recreational and educational area for the town of New Fairfield, Connecticut. A trailside museum, an outdoor amphitheater and about three-fourths of a mile of nature trail marked with labels are offerings to visitors to this area which adjoins Miss Gillotti's farm.

Other services to her community include doing a series of seasonal nature programs for the new community library, directing a camping week-end for Girl Scouts and attending the Massachusetts Audubon Society's Berkshire June campout.

While "Hidden Valley" is her first interest she has found time to count over 2,000 hawks in migration during September with midmonth day's count of 1,662. She has found time for other birding, for trips with bird clubs, for the nature portion of a Junior Counselor Training Course for 4-H Clubs, and to conduct a conservation and nature program for the New Fairfield Community Club. All of these she fits into a busy schedule of serving as Town Secretary of New Fairfield.

She tells that "Our dairy farm still operating. Heavy crops — good pasture grazing till late in the fall. Plentiful wild mushroom crop in one pasture enjoyed more by us than the cows!"

She is representative of that group of our busiest people who are never too busy to find time for a worthy activity to promote nature study.

\* \* \*

The Desomount Club of California has a number of ANSS members on its roster. The club originally started by ROLAND C. Ross has blossomed to a strong organization working for Nature Study, Conservation and appreciation of the world of Nature. The club has many ardent supporters of conservation projects. One of these, geared to saving Tujunga Wash, the only wilderness area left within the Los Angeles city limits, for recreational and educational purposes, led to the establishment of a chapter of Nature Conservancy.

One cannot treat the activities of Roland Ross and the Desomount Club without involving others and particularly EVELYN GAYMAN. Through their organization they have given support to such efforts as the establishment of the Committee for the Preservation of the Tule

Elk, and the creation of the Theodore Payne Foundation. They give active support to the Desert Protective Council, the Sierra Club, and they are active members of the Federation of Western Outdoor Clubs.

Roland Ross is a member of the staff of Los Angeles City College and through his teaching of Nature Study and Conservation has left a deep imprint upon the course which conservation education takes in California. His field trips are masterpieces in field leadership techniques.

Evelyn Gayman is the conservation representative for the Desomount Club who gathers information and inspiration from a score of national and local publications from which she writes conservation news for Dustings, the club paper. She is active in preparing exhibits for the indoor meetings, and keeps up a lively correspondence with congressmen, the Secretary of the Interior, and with some state and local officials.

All this she does in time she finds from a busy day as kindergarten teacher. She feels this is her best avenue of service to children to whom she gives a better understanding of their natural environment in order to improve their lives through a better enjoyment of nature through development of a joy of seeing, feeling, hearing, and discovering nature.

\* \* \*

CHARLOTTE HILTON GREEN is an example of a member of ANSS who finds her richest rewards in the spreading of nature and conservation information through writing. Her newspaper column "Out-of-Doors" has had its 28th birthday. Its readers look forward to what she writes.

To give her broadened experiences upon which to draw for her writings she visited the famed shell beaches of Sanibel Island in Florida, took a water trip to the Coral Reefs at Key West by glass-bottomed boat, and then by car along the shore of Lake Erie, and along the north shore of Lake Ontario. She then went to Montreal and Quebec by cargo vessel; later to the Finger Lakes of New York, Audubon's first American home. She is planning — dreaming — South America, Round-the-World or even the Moon.

More prosaic trips away from home took her in July to the annual North Carolina Writers Conference with fellow scribblers and stragglers. In November it was to New York and the National Audubon Convention as a delegate from the North Carolina Federation of Women's Clubs.

Birds, she says, mean much to her way of life, and her bird feeders get a great variety and number of visitors.

\* \* \*

HERBERT G. TAG, Associate Professor of Education, at the University of Connecticut, has recently completed a 10,000 mile journey while on sabbatical leave. While settled now at the more prosaic task of teaching, he offers off-campus courses in Elementary Science for Teachers.

His most pleasant non-professional activities find him an active member of the Natchaug Ornithological Society which is based on the campus, and he looks forward yearly to the Christmas Bird Census. The recent acquisition of sixty acres of marshland and pond as a wildlife refuge, and an interest in other wetland areas spreads his avocational interests actively into nature and conservation.

\* \* \*

MARIE E. GAUDETTE from Pleasantville, New York, will be recalled by many for many things. Some of the finest nature songs heard in many camps throughout America have come from her efforts. Much of the best in the nature study program of the Girl Scouts of the U.S.A. were the product of her devotion to the cause of bettering the interpretation of nature to enrich the lives of scouts through appreciation of the part nature plays in our national welfare.

Currently she is Nature Consultant for the Girl Scouts. She teaches three or four

afternoons a week at the National Training School for Girl Scout Leaders at Pleasantville, New York.

\* \* \*

Substantiating our belief that ANSS members are in the thickest part of the battle for conservation are the activities of MRS. LEROY CLARK of Edgewood, New Jersey. She is currently on the Board of the Hudson River Conservation Society, and the Christian Ministry of the National Parks. Another activity is her service as Advisor to the Conservation and National Parks Committee of the Garden Clubs of America.

\* \* \*

We must report that JANE GEISLER of Wappingers Falls, New York, is an active Girl Scout leader doing much nature and conservation work. She has directed ten-day sessions of Girl Scout Day Camps for a number of summers, though she feels that the most effective effort goes into training adult leaders in the greater emphasis on the use of nature in outdoor programs.

Among her more valued experiences is a session at Camp Edith Macy, The National Girl Scout Training School, where nature study is given great emphasis. This has helped in many ways and particularly in the nature workshops she conducts for high school-age playground leaders.

\* \* \*

## Application for Annual Membership

Membership in the American Nature Study Society includes a membership card, a quarterly NEWSLETTER and the magazines you select. Please note you can get your membership for less than \$3.00, even free, by selecting the proper group.

**Group Cost Publications Received** (All include ANSS Newsletter and Nature Study Tips)

1. \$3.00	Membership only
2. 4.00	Membership with Cornell Science Leaflet (4 issues)
3. 5.50	Membership with Canadian Audubon Magazine (5 issues)
4. 6.50	Membership with Cornell Science Leaflet and Canadian Audubon
5. 7.00	Membership with Natural History
6. 8.00	Membership with Cornell Science Leaflet and Natural History
7. 9.50	Membership with Canadian Audubon and Natural History
8. 10.00	Membership with Canadian Nature, Natural History, Cornell Science Leaflet
F.	For Family Membership, add \$1.50 to the cost of group selected. Circle group desired, send application with name and address and check to:

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